

WEST Search History for Application 10536926

Creation Date: 2010110616:43

Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
704/4.ccls. or 704/270.ccls. or 704/275.ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
700/245.ccls. or 709/204.ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
(700/245.ccls. or 709/204.ccls.) or (704/4.ccls. or 704/270.ccls. or 704/275.ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
536296	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
(20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009

7089084 7269480 20020156551).pn.					
((20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.) and (topic and conversation).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
651577	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
(Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) or sony.asn.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
(sony.asn.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB,	OR	YES		07-19-2009

	DWPI, TDBD				
(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) or sony.asn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((dialogue or dialog) and conversation and topic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((((dialogue or dialog) and conversation and topic)) and sub	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((dialogue or dialog) and conversation and topic) and sub) and ((20060047362 20030158733 6230111 5864626	PGPB, USPT,	OR	YES		07-19-2009

7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.)	USOC, EPAB, JPAB, DWPI, TDBD				
((dialogue or dialog) and conversation and topic) and sub) and (speech near10 recogni\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((dialogue or dialog) and conversation and topic) and sub and (speech near10 recogni\$)) and robot	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((dialogue or dialog) and conversation and topic) and sub) and @ad<20021202	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((dialogue or dialog) and conversation and topic) and sub and @ad<20021202) and (((dialogue or dialog) and conversation and topic) and sub and (speech near10 recogni\$))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
((dialogue or dialog) and conversation and topic) and sub and @ad<20021202 and ((dialogue or dialog) and conversation and topic) and sub and (speech near10 recogni\$)) and robot	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-19-2009
(704/4).ccls. or (704/270).ccls. or (704/275).ccls.	PGPB,	OR	YES		03-24-2010

	USPT, USOC, EPAB, JPAB, DWPI, TDBD				
(700/245).ccls. or (709/204).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
((700/245).ccls. or (709/204).ccls.) or ((704/4).ccls. or (704/270).ccls. or (704/275).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
536296	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
(20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
((20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010

20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.) and (topic and conversation).clm.					
651577	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
(Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) or sony.asn.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
(sony.asn.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) or sony.asn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
		OR	YES		03-24-2010

(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
5918222.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
(5918222.pn.) and history	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
((dialogue or dialog) and conversation and topic) and value and object and user and robot	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		03-24-2010
(((dialogue or dialog) and conversation and topic) and value and object and user and robot) and ((20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105	PGPB, USPT, USOC, EPAB,	OR	YES		03-24-2010

7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.)	JPAB, DWPI, TDBD				
(((((dialogue or dialog) and conversation and topic) and value and object and user and robot and (speech near7 recogni\$) and ((image or visual) near7 recogni\$)) and @ad<20021202)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
(((((dialogue or dialog) and conversation) and user and robot and @ad<20021202 not virtual and (previous near7 conversation)) and previous)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
(704/4).ccls. or (704/270).ccls. or (704/275).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
(700/245).ccls. or (709/204).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((700/245).ccls. or (709/204).ccls.) or ((704/4).ccls. or (704/270).ccls. or (704/275).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
536296	PGPB, USPT,	OR	YES		07-28-2010

	USOC, EPAB, JPAB, DWPI, TDBD				
(20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.) and (topic and conversation).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
651577	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
(Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB,	OR	YES		07-28-2010

	DWPI, TDBD				
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) or sony.asn.) and ((dialogue or dialog and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
(sony.asn.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) or sony.asn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.) and (conversation and topic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((dialogue or dialog) and conversation and topic) and value and object and user and robot	PGPB, USPT,	OR	YES		07-28-2010

	USOC, EPAB, JPAB, DWPI, TDBD				
((dialogue or dialog) and conversation and topic) and value and object and user and robot) and ((20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((dialogue or dialog) and conversation and topic) and value and object and user and robot) and (speech near7 recogni\$) and ((image or visual) near7 recogni\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((dialogue or dialog) and conversation and topic) and value and object and user and robot and (speech near7 recogni\$) and ((image or visual) near7 recogni\$)) and @ad<20021202	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		07-28-2010
((dialogue or dialog) and conversation and topic) and value and object and user and robot and (speech near7 recogni\$) and ((image or visual) near7 recogni\$)) and @ad<20021202)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
((dialogue or dialog) and conversation) and user and robot and @ad<20021202 not virtual and (previous near7 conversation)) and previous)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010

(704/4).ccls. or (704/270).ccls. or (704/275).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(700/245).ccls. or (709/204).ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
((700/245).ccls. or (709/204).ccls.) or ((704/4).ccls. or (704/270).ccls. or (704/275).ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
536296	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
((20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010

20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.) and (topic and conversation).clm.					
651577	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) or sony.asn.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(sony.asn.) and ((dialogue or dialog) and conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in.) or sony.asn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010

(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(((Aoyama or Yoshiike or Ohtani or Horinaka or Shimomura).in. or sony.asn.)) and (conversation and topic).clm.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
((dialogue or dialog) and conversation and topic) and value and object and user and robot	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(((dialogue or dialog) and conversation and topic) and value and object and user and robot) and ((20060047362 20030158733 6230111 5864626 7251606 20030182122 20080114837 5926179 6363301 7047105 7139642 7216082 7349850 7467026 20020161480 20030185380 20030187653 20030220796 20040015344 20040153211 20050065652 20050144011 20060155765 20070043878 20080221730 20090132250 5915240 5828839 6061716 6061716 20040128353 20060067497 5214622 6154764 6345290 6630944 20030197730 20040098469 5692212 5694528 5930757 20020052913 20060111909 5754631 6394872 6615111 6914622 7089084 7269480 20020156551).pn.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
((dialogue or dialog) and conversation and topic) and value and object and user and robot) and (speech near7 recogni\$) and ((image or visual) near7 recogni\$)	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	OR	YES		11-06-2010

	TDBD				
((((dialogue or dialog) and conversation and topic) and value and object and user and robot and (speech near7 recogni\$) and ((image or visual) near7 recogni\$)) and @ad<20021202	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
((speech or voice) near5 recogni\$) and ((visual or image) near5 recogni\$) and (user near5 (identification or identifying or identity or verify or verification or verified))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(((speech or voice) near5 recogni\$) and ((visual or image) near5 recogni\$) and (user near5 (identification or identifying or identity or verify or verification or verified))) and @ad<20021202	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010
(((speech or voice) near5 recogni\$) and ((visual or image) near5 recogni\$) and (user near5 (identification or identifying or identity or verify or verification or verified)) and @ad<20021202) and robot	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	OR	YES		11-06-2010